

Ishan Madhuranga

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EDUCATION

Dublin Business School

Master of Science in Artificial Intelligence

Dublin, Ireland

Jan 2025

Southampton Solent University

Bachelor of Science in Cyber Security Management

Southampton, England

April 2022

EXPERIENCE

Game Developer Intern

Sleepless Inc.

Sep 2024 – June 2025

Dublin, Ireland

- Developed and optimized game-play mechanics, AI behaviors, and interactive elements.
- Debugging and optimizing game performance for efficiency and stability.
- Staying up to date with the latest Unreal Engine advancements and best practices.

Artificial Intelligence Engineer Intern

British College Of Applied Studies

Nov 2021 – Nov 2022

Colombo, Sri Lanka

- Participated in academic research initiatives, contributing to projects involving generative adversarial networks (GANs), autonomous systems, and reinforcement learning.
- Collaborated on building RESTful APIs using FastAPI and Flask to serve AI functionalities to front-end clients.
- Documented all development processes, including model training, evaluation, and deployment strategies, in line with academic and industry standards.

Freelance AI/ML Specialist

Fiverr & Direct Contracts

Aug 2019 – Feb 2025

Colombo, Sri Lanka

- Delivered AI and ML solutions to clients via Fiverr and direct contracts.
- Built and deployed models for deep learning, computer vision, and data analytics tasks.
- Deep Learning, Computer Vision, Data Preprocessing and Model Deployment using Amazon ECS/ Azure Kubernetes
- Conducted model optimization and integration for real-time applications and IOT/Client based devices.

PROJECTS

Fast Neural Style Transfer In a 3D Environment in Real Time | Python, C++

June 2024 – Sept 2024

- Developed a custom transformer model for real-time neural style transfer system for 3D environments
- Implemented intelligent NPC behavior using ConvAI for conversations with a custom fine-tuned BART LLM model running on backend with specialized table queries.
- Achieved seamless rendering while maintaining visual quality with Custom Depth Filters
- Quantized the ONNX Models for better performance.

FNST Minimal Inference Implementation for Performance Optimization | C++

Sept 2024

- Implemented a lightweight Fast Style Neural Transfer inference in pure C++ with a focus on maximizing execution speed and reducing memory overhead.
- Focused on rapid experimentation and low-latency deployment in constrained environments without the need for Python-based ML stacks.

Autonomous Self-Driving Car (Prototype) | Python, NVIDIA Jetson Nano

Aug 2021 – Dec 2021

- Designed and implemented an autonomous self- driving vehicle using a custom-trained CNN model deployed on a SBD.
- Real-time inference from a single RGB camera for dynamic navigation decisions.
- Applied Threading for monitoring driver fatigue using HOG-based face detection and facial landmark analysis.
- Implemented Real time Motor RPM Adjustments based on Inference Results.

TECHNICAL SKILLS

Languages: Python, C++, C#, SQL (Postgres), JavaScript/TypeScript, HTML/CSS

Frameworks: React, React Three Fiber, Node.js, Transformer.js, Flask, FastAPI, PyTorch, Tensorflow

Developer Tools: Git, Docker, Google Cloud Platform, AWS, VS Code, Visual Studio, Jupyter Notebooks

Libraries: OpenCV, OnnxRuntime, Tkinter, pandas, NumPy, Threading, Matplotlib